IN THE CLAIMS

1. (currently amended) A method of changing a fragment size of data packets in a router where a data packet is divided into data packets having the fragment size, and the data packets are transmitted to a network along with audio packets, comprising the steps of:

acquiring, in the router, a parameter indicative of whether proper audio quality is maintained through ongoing transmission of the audio packets; and

dynamically changing the fragment size of the data packets in response to the acquired parameter, wherein the step of dynamically changing further includes the steps of:

comparing a current value of the parameter to an average value of the parameter;

increasing or decreasing the fragment size in relation to a default fragment size when
a deviation of the current value of the parameter from the average value of the parameter
exceeds a predetermined threshold for a first predetermined period of time; and

resuming the default fragment size when the deviation of the current value of the parameter from the average value of the parameter falls below the predetermined threshold for a second predetermined period of time.

2. (original) The method as claimed in claim 1, wherein said step of acquiring includes a step of measuring, as said parameter, a wait time for which the audio packets wait in the router before being transmitted to the network.

- 3. (original) The method as claimed in claim 1, wherein said step of acquiring includes a step of measuring, as said parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network.
- 4. (original) The method as claimed in claim 1, wherein said step of acquiring includes a step of counting, as said parameter, a number that indicates how many times a congestion notice is received from the network during a predetermined time period to indicate congestion of the network.
- 5. (original) The method as claimed in claim 1, wherein said step of acquiring includes a step of acquiring, as said parameter, a number of audio calls from an apparatus that counts the number of audio calls.
- 6. (original) The method as claimed in claim 1, wherein said step of acquiring includes a step of acquiring, as said parameter, a number of audio calls based on signaling information.
- 7. (currently amended) A router apparatus for routing and transmitting audio packets along with data packets to a network, comprising:
- a control unit which acquires a parameter indicative of whether proper audio quality is maintained through ongoing transmission of the audio packets; and
- a fragmentation unit which divides a data packet into data packets having a fragment size, and dynamically changes the fragment size in response to the acquired parameter, wherein the fragmentation unit dynamically changes the fragment size by:

comparing a current value of the parameter to an average value of the parameter; increasing or decreasing the fragment size in relation to a default fragment size when a deviation of the current value of the parameter from the average value of the parameter exceeds a predetermined threshold for a first predetermined period of time; and

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resurning the default fragment size when the deviation of the current value of the parameter from the average value of the parameter falls below the predetermined threshold for a second predetermined period of time.

- 8. (original) The router apparatus as claimed in claim 7, wherein said control unit measures, as said parameter, a wait time for which the audio packets wait in the router before being transmitted to the network.
- 9. (original) The router apparatus as claimed in claim 7, wherein said control unit measures, as said parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network.
- 10. (original) The router apparatus as claimed in claim 7, wherein said control unit counts, as said parameter, a number that indicates how many times a congestion notice is received from the network during a predetermined time period to indicated congestion of the network.

11. (original) The router apparatus as claimed in claim 7, wherein said control unit acquires, as said parameter, a number of audio calls from an apparatus that counts the number of audio calls.

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12. (original) The router apparatus as claimed in claim 7, wherein said control unit acquires, as said parameter, a number of audio calls based on signaling information.